

ATTY. DOCKET NO.	
ATTY. DOCKET NO. 1671-0271	

APPLICATION NO. 10/622,527

APPLICANT: Klotz et al.

FILING DATE: July 18, 2003

GROUP ART UNIT: 3765

			U.S. PA	TENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RZ	AA	195,865	October 2, 1877	Wilson			
72	AB	1,037,206	September 3, 1912	Clifford			
KZ	AC	1,445,176	February 13, 1923	Schmelzer			
RZ	AD	1,467,227	September 4, 1923	Capell			
12	AE	1,715,071	May 28, 1929	Martens et al.			
RZ	AF	1,766,272	Jun 24, 1930	Vallier			
72	AG	1,818,607	August 11, 1931	Campbell			
RZ	AH	1,825,114	September 29, 1931	Hendrickson			
12	AI	1,867,809	July 19, 1932	Chase			
722	AJ	2,011,298	August 13, 1935	Osbun et al.			
RZ	AK	2,350,939	June 6, 1944	Sprouse			
			FOREIGN	PATENT DOCUMENTS			
EXAMINER NITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
RZ	AL	26 00 486	July 15, 1976	Germany			Yes No
RZ	AM	2 183 488	June 10, 1987	UK			Yes No
RZ	AN	27 44 488	April 1978	Germany			Yes No
RZ	AO	1017797	December 1952	France			Yes No
RZ	AP	986429	January 1983	Soviet Union			· Yes
R2	AQ	1068130	January 1984	Soviet Union			Ye. No
RZ	AR	WO 94/03235	February 1994	WIPO			Ye No
RZ	AS	WO 88/09193	December 1, 1988	WIPO			Ye:
RZ	AT	WO 91/18569	December 12, 1991	WIPO			Ye No
		Ol	HER (Including Au	thor, Title, Date, Pertinent	t Pages, etc.)		
EXAMINER Rodney Lindsey					onsidered a	2,2005	

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	APPLICANT: Klotz et al.			
JAH 2 TO SELECTION	FILING DATE: July 18, 2003	GROUP ART UNIT: 3765		

			U.S. PA1	TENT DOCUMENTS			<u>. </u>
XAMINER NITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
1/2	AU	2,361,676	October 31, 1944	Baker			
RZ	AV	2,660,401	November 24, 1953	Hull Jr.			
12	AW	2,772,538	December 4, 1956	Ullery			
12	AX	3,018,776	January 30, 1962	Saitta			
KZ	AY	3,025,525	March 20, 1962	Larson			
BZ	AZ	3,048,776	August 7, 1962	Logan			
Z	BA	3,058,463	October 16, 1962	Goodrich, Jr.			
RZ	BB	3,140,042	July 7, 1964	Fuji			
12	ВС	3,168,748	February 9, 1965	Limberg			
12	BD	3,214,809	November 2, 1965	Edwards			
22	BE	3,368,744	February 13, 1968	Jenn			
RZ	BF	3,444,817	May 20, 1969	Caldwell			
RZ	BG	3,491,374	January 27, 1970	Frangos			
12	вн	3,529,594	September 22, 1970	Chamley			
R2	BI	3,803,640	April 16, 1974	Ericson			·
R2	BJ	3,822,698	July 9, 1974	Guy			
RZ	BK	3,881,198	May 6, 1975	Waters			
12	BL	3,955,570	May 11, 1976	Hutter, III			,
RZ	ВМ	3,963,021	June 15, 1976	Bancroft			
RZ	BN	4,019,508	April 26, 1977	Der Estephanian et al.			
22	ВО	4,038,979	August 2, 1977	McCosker			
12	BP	4,055,123	October 25, 1977	Heidelberg			
RZ	BQ	4,055,173	October 25, 1977	Knab			
RZ	BR	4,121,115	October 17, 1978	de Méré			
R2	BS	4,133,308	January 9, 1979	Lowe et al.			
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			U.S. PAT	ENT DOCUMENTS			
XAMINER NITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RZ	BT	4,136,688	January 30, 1979	Gorman			
RZ	BU	4,174,924	November 20, 1979	Smithson, Jr.			
RZ	BV	4,227,520	October 14, 1980	Lord			
RZ	BW	4,280,491	July 28, 1981	Berg et al.			
12	вх	4,296,746	October 27, 1981	Mason, Jr. et al.			
72	BY	4,320,256	March 16, 1982	Freeman			
RZ	BZ	4,336,799	June 29, 1982	Almasi et al.			
RZ	CA	4,364,712	December 21, 1982	Charles .			
RZ	СВ	4,455,687	June 26, 1984	Johansson			
R2	СС	4,462,399	July 31, 1984	Braun			
RZ	CD	4,469,097	September 4, 1984	Kelman .			
RZ	CE	4,531,890	July 30, 1985	Stokes		_	
12	CF	4,549,541	October 29, 1985	Sundahl			
RZ	CG	4,549,103	October 22, 1985	Shiga			
12	СН	4,589,408	May 20, 1986	Singer			
RZ	CI	4,590,951	May 27, 1986	O'Connor		, ,	
RZ	CJ	4,619,254	October 28, 1986	Moretti et al.			
RZ	СК	4,651,727	March 24, 1987	Howorth ,			
RZ	CL	4,664,593	May 12, 1987	Hayashi et al.			
KZ.	СМ	4,667,667	May 26, 1987	Schnoor et al.			
TKZ.	CN	4,672,968	June 16, 1987	Lenox et al.			
R2_	со	4,674,492	June 23, 1987	Niemeyer			
72	СР	4,676,236	June 30, 1987	Piorkowski et al.			
KZ	CQ	4,711,033	December 8, 1987	Mitchell			
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	_		U.S. PA	TENT DOCUMENTS			
EXAMINER NITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RZ	CR	4,711,539	December 8, 1987	Krusas et al.			
RZ	cs	4,730,612	March 15, 1988	Dampney			
RZ	СТ	4,744,106	May 17, 1988	Wang			
RZ	CU	4,752,974	June 28, 1988	Haino	ļ		
R2	CV	4,771,226	September 13, 1988	Jones			
RZ	cw	4,810,269	March 7, 1989	Stackhouse et al.			
RZ	CX	4,826,513	May 2, 1989	Stackhouse et al.			
RZ	CY	4,864,654	September 12, 1989	Schriver et al.			
RZ	CZ	4,875,477	October 24, 1989	Waschke et al.	İ		
RZ	DA	4,901,716	February 20, 1990	Stackhouse et al.			
RZ	DB	4,915,588	April 10, 1990	Brackett			
RZ	DC	4,951,662	August 28, 1990	Townsend, Jr.			
RZ	DD	4,986,282	January 22, 1991	Stackhouse et al.			
RZ	DE	4,999,846	March 19, 1991	Ball et al.			
RZ	DF	5,003,973	April 2, 1991	Ford et al.			
RZ	DG	5,009,225	April 23, 1991	Vrabel			
RZ.	DH.	5,029,342	July 9, 1991	Stein et al.			
12	DI	5,042,474	August 27, 1991	Williamson			
RZ	DJ	5,046,492	September 10, 1991	Stackhouse et al.			
RZ	DK	5,048,516	September 17, 1991	Söderberg			
RZ	DL	5,051,881	September 24, 1991	Herold			
12	DM	5,054,479	October 8, 1991	Yelland et al.			
1/2	DN	5,054,480	October 8, 1991	Bare et al.			
KZ	DO	5,069,205	December 3, 1991	Urso			
RZ	DP	5,085,231	February 4, 1992	Johnson			
EXAMINER	Ro	drey Li	ndsey		DATE CO	nsidered 27	2005

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DOCUMENT NUMBER 5,088,117 5,104,430 5,125,402 5,140,980 5,142,704 5,142,706 5,193,347 5,226,939 5,237,707 5,253,642 5,283,914 5,342,121	DATE February 18, 1992 April 14, 1992 June 30, 1992 August 25, 1992 September 1, 1992 September 1, 1992 March 16, 1993 July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994 August 30, 1994	NAME Fulmer Her-Mou Greenough Haughey et al. Viemeister et al. Layhon Apisdorf Nicolas et al. Lowrie Stackhouse et al. James Koria	CLASS	SUB-CLASS	FILING DATE
5,104,430 5,125,402 5,140,980 5,142,704 5,142,706 5,193,347 5,226,939 5,237,707 5,253,642 5,283,914	April 14, 1992 June 30, 1992 August 25, 1992 September 1, 1992 September 1, 1992 March 16, 1993 July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994	Her-Mou Greenough Haughey et al. Viemeister et al. Layhon Apisdorf Nicolas et al. Lowric Stackhouse et al. James			
5,125,402 5,140,980 5,142,704 5,142,706 5,193,347 5,226,939 5,237,707 5,253,642 5,283,914	June 30, 1992 August 25, 1992 September 1, 1992 September 1, 1992 March 16, 1993 July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994	Greenough Haughey et al. Viemeister et al. Layhon Apisdorf Nicolas et al. Lowrie Stackhouse et al. James			
5,140,980 5,142,704 5,142,706 5,193,347 5,226,939 5,237,707 5,253,642 5,283,914	August 25, 1992 September 1, 1992 September 1, 1992 March 16, 1993 July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994	Haughey et al. Viemeister et al. Layhon Apisdorf Nicolas et al. Lowric Stackhouse et al. James			
5,142,704 5,142,706 5,193,347 5,226,939 5,237,707 5,253,642 5,283,914	September 1, 1992 September 1, 1992 March 16, 1993 July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994	Viemeister et al. Layhon Apisdorf Nicolas et al. Lowrie Stackhouse et al. James			
5,142,706 5,193,347 5,226,939 5,237,707 5,253,642 5,283,914	September 1, 1992 March 16, 1993 July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994	Layhon Apisdorf Nicolas et al. Lowric Stackhouse et al. James			
5,193,347 5,226,939 5,237,707 5,253,642 5,283,914	March 16, 1993 July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994	Apisdorf Nicolas et al. Lowrie Stackhouse et al. James			
5,226,939 5,237,707 5,253,642 5,283,914	July 13, 1993 August 24, 1993 October 19, 1993 February 8, 1994	Nicolas et al. Lowric Stackhouse et al. James			
5,237,707 5,253,642 5,283,914	August 24, 1993 October 19, 1993 February 8, 1994	Lowrie Stackhouse et al. James			
5,253,642 5,283,914	October 19, 1993 February 8, 1994	Stackhouse et al. James			
5,283,914	February 8, 1994	James			
		 			
5,342,121	August 30, 1994	Koria			
		120110			
5,349,949	September 27, 1994	Schegerin			
5,354,178	October 11, 1994	Ferleger et al.			
5,373,588	December 20, 1994	Hede et al.			
5,380,245	January 10, 1995	Reiterman et al.			
5,410,757	May 2, 1995	Vienamo et al.			
5,452,712	September 26, 1995	Richardson			
5,456,248	October 10, 1995	Holian et al.			
5,492,116	February 20, 1996	Scarberry et al.			
5,503,146	April 2, 1996	Froehlich et al.			-
5,515,843	May 14, 1996	Chang			
5,520,668	May 28, 1996	Greff et al.			
5,525,278	June 11, 1996	Krosch et al.	1		
5,549,104	August 27, 1996	Crump et al.		•	
	5,456,248 5,492,116 5,503,146 5,515,843 5,520,668 5,525,278	5,456,248 October 10, 1995 5,492,116 February 20, 1996 5,503,146 April 2, 1996 5,515,843 May 14, 1996 5,520,668 May 28, 1996 5,525,278 June 11, 1996 5,549,104 August 27, 1996	5,456,248 October 10, 1995 Holian et al. 5,492,116 February 20, 1996 Scarberry et al. 5,503,146 April 2, 1996 Froehlich et al. 5,515,843 May 14, 1996 Chang 5,520,668 May 28, 1996 Greff et al. 5,525,278 June 11, 1996 Krosch et al. 5,549,104 August 27, 1996 Crump et al.	5,456,248 October 10, 1995 Holian et al. 5,492,116 February 20, 1996 Scarberry et al. 5,503,146 April 2, 1996 Froehlich et al. 5,515,843 May 14, 1996 Chang 5,520,668 May 28, 1996 Greff et al. 5,525,278 June 11, 1996 Krosch et al. 5,549,104 August 27, 1996 Crump et al.	5,456,248 October 10, 1995 Holian et al. 5,492,116 February 20, 1996 Scarberry et al. 5,503,146 April 2, 1996 Froehlich et al. 5,515,843 May 14, 1996 Chang 5,520,668 May 28, 1996 Greff et al. 5,525,278 June 11, 1996 Krosch et al.

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IUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
,553,500 S	eptember 10, 1996	Grahn et al.			
,564,124 O	October 15, 1996	Elsherif et al.			
,577,495 N	lovember 26, 1996	Murphy			
,578,000 N	lovember 26, 1996	Greff et al.			
,588,153 D	December 31, 1996	Ignon et al.			
,592,030 Ja	anuary 7, 1997	Adaham			
,592,936 Ja	anuary 14, 1997	Thomas, Jr. et al.			
,601,078 Fe	ebruary 11, 1997	Schaller et al.			
,620,441 A	pril 15, 1997	Greff et al.			
,624,234 A	pril 29, 1997	Neely et al.			•
,655,374 A	ugust 12, 1997	Santilli et al.			
,664,566 Se	eptember 9, 1997	McDonald et al.			
,669,375 Se	eptember 23, 1997	Dahrendorf et al.			
,682,618 N	lovember 4, 1997	Johnson et al.			
,687,713 N	lovember 18, 1997	Bahr et al.			
,690,095 N	lovember 25, 1997	Glynn et al.			
,711,033 Ja	anuary 27, 1998	Green et al.			
,720,281 Fo	ebruary 24, 1998	Allen et al.			
,804,894 Se	eptember 8, 1998	Leeson et al.		•	
,835,366 N	lovember 10, 1998	Pleso et al.	,		
,879,493 M	March 9, 1999	Johnson et al.			
,887,281 M	farch 30, 1999	Green et al.			A I
,961,289 O	October 5, 1999	Lohmann			
,964,576 O	October 5, 1999	Lohmann			
,984,638 N	lovember 16, 1999	Gresh et al.			
,88 ,96 ,96	37,281 N 51,289 C 54,576 C 34,638 N	37,281 March 30, 1999 51,289 October 5, 1999 54,576 October 5, 1999 34,638 November 16, 1999	March 30, 1999 Green et al.	37,281 March 30, 1999 Green et al. 51,289 October 5, 1999 Lohmann 54,576 October 5, 1999 Lohmann 34,638 November 16, 1999 Gresh et al. DATE COL	March 30, 1999 Green et al.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
RZ	FO	6,014,971	January 18, 2000	Danisch et al.			
RZ	FP	6,047,411	April 11, 2000	Ryden et al.			
RZ	FQ	6,081,929	July 4, 2000	Rothrock et al.			
RZ	FR	6,122,773	September 26, 2000	Katz			
RZ	FS	6,374,823	April 23, 2002	Hajianpour			
RZ	FT	D298,473	November 8, 1988	Stackhouse et al.			4
RZ	FU	D303,166	August 29, 1989	Stackhouse et al.			
RZ	FV	D304,612	November 14, 1989	Stackhouse et al.			
12	FW	D304,854	November 28, 1989	Stackhouse et al.			
R2	FX	D306,363	February 27, 1990	Stackhouse et al.			
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